	Application No.	lication No. Applicant(s)	
	10/088,202	PARK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	VANESSA L. FORD	1645	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 10/29/09. 2. The allowed claim(s) is/are 1, 2,6, 13, 14 and 18.	(OR REMAINS) CLOSED in or other appropriate communi IGHTS. This application is su	this application. If not included iication will be mailed in due course. THIS	
3.			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material /Vanessa L. Ford/	6. ⊠ Interview Su Paper No./N 7. ⊠ Examiner's A	ormal Patent Application mmary (PTO-413), fail Date <u>2/13/10</u> . mendment/Comment statement of Reasons for Allowance	
Primary Examiner, Art Unit 1645			

Art Unit: 1645

Allowance

1. Applicant's amendment filed October 29, 2009 is acknowledged.

Claims 1-11, 13-15 and 18 have been amended. Claim 12 has been canceled.

Claims 3-5, 7-11, 15-17 and 19-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on March 21, 2005.

Claims 1-2, 6, 13-14 and 18 are under examination.

2. All objections and rejections of record are withdrawn.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph Kim on February 13, 2010.

4. The application has been amended as follows:

Art Unit: 1645

In the claims:

Amended claims are as follows:

1. (currently amended) A detoxified and immunologically active heat-labile enterotoxin protein of *Escherichia coli*, wherein the serine residue at position 63 is substituted with tyrosine or amino acid residues at positions 110 and 112 are deleted.

- 2. (currently amended) A detoxified and immunologically active heat-labile enterotoxin protein having an the amino acid sequence of SEQ ID NO.3.
- 3. (canceled)
- 4. (canceled)
- 5. (canceled)
- 6. (currently amended) A detoxified and immunologically active heat-labile enterotoxin protein having an the amino acid sequence of SEQ ID NO.5.
- 7. (canceled)
- 8. (canceled)
- 9. (canceled)
- 10. (canceled)
- 11. (canceled)
- 15. (canceled)
- 16. (canceled)
- 17. (canceled)
- 19. (canceled)
- 20. (canceled)

Art Unit: 1645

Examiner's Reasons for Allowance

5. The prior art neither teaches or discloses a detoxified and immunologically active heat-labile enterotoxin protein of *Escherichia coli* wherein serine residue at position 63 is substituted with tyrosine or amino acid residues at positions 110 and 112 are deleted. The prior art neither teaches nor discloses the amino acid sequences as set forth in SEQ ID NOs. 3 and 5.

Status of Claims

6. Claims 1-2, 6, 13-14 and 18 are allowed.

Art Unit: 1645

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VANESSA L. FORD whose telephone number is (571)272-0857. The examiner can normally be reached on 9 am- 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Mondesi can be reached on (571) 272-0756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Vanessa L. Ford/ Primary Examiner, Art Unit 1645 February 16, 2010